

## Chapter 3: The Boolean Connectives

These are truth-functional connectives: the truth value (truth or falsity) of a compound sentence formed with such a connective is a function of (i.e., is completely determined by) the truth value of its components.

### § 3.1 Negation symbol: $\neg$

The negation of a true sentence is false; the negation of a false sentence is true. This information is recorded in the "truth-table" on p. 69. (Here and in other such tables we will abbreviate *true* by T and *false* by F.)

P	$\neg P$
T	F
F	T

This table tells us that the negation of a sentence has the opposite truth value.

**Some terminology:** If P is atomic, then both P and  $\neg P$  are called "literals." Thus,  $\text{Cube}(a)$  and  $\neg\text{Cube}(a)$  are literals, but  $\neg\neg\text{Cube}(a)$  is not a literal.

### § 3.2 Conjunction symbol: $\wedge$

#### Writing conjunctions in FOL and in English

In English, conjunction is expressed by *and*, *moreover*, and *but*.

*George is wealthy and John is not wealthy*

*George is wealthy but John is not wealthy*

are both translated in FOL as  $\text{Wealthy}(\text{george}) \wedge \neg\text{Wealthy}(\text{john})$

Note that we read this FOL sentence as: "Wealthy George and not wealthy John." This way of reading FOL sentences will make it much easier later when we come to write them using Tarski's World.

#### $\wedge$ vs. 'and'

In English, 'and' often conveys a temporal meaning: 'and then' or 'and next'. Thus, these aren't equivalent:

*Max went home and Claire went to sleep*

*Claire went to sleep and Max went home*

The first suggests that Claire retired after Max left; the second suggests that Max didn't leave until after Claire retired.

But in FOL, the following sentences are equivalent:

$\text{WentHome}(\text{max}) \wedge \text{WentToSleep}(\text{claire})$

$\text{WentToSleep}(\text{claire}) \wedge \text{WentHome}(\text{max})$

That is,  $\wedge$  requires nothing more than joint truth, not temporal order.

# Chapter 3 The Boolean Connectives Stanford

**Padhraic Smyth**



## **Chapter 3 The Boolean Connectives Stanford:**

## Decoding **Chapter 3 The Boolean Connectives Stanford**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Chapter 3 The Boolean Connectives Stanford**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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